REPORT DOCUMENTATION PAGE

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Univ. of Colorado			
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JILA

Campus Box 440 Boulder, Colorado 80309-0440 (303) 492-7789 E-mail: reception.desk@jila.colorado.edu Fax: (303) 492-5235

August 25, 1997

Air Force Office of Scientific Research 110 Duncan Avenue, Suite B115 Bolling Air Force Base Washington DC 20332-8080

Final Report: Gordon Research Conference

The Gordon Conference on Atomic and Molecular Interactions was held in New London, New Hampshire at Colby Sawyer College from June 30 to July 5, 1996. The conference was very well attended (over 110 attendees, see attached lists) by a broad spectrum of people from academia, industry and government laboratories, both US and foreign scientists, senior researchers, young investigators, postdoctorals and graduate students. The funds from the AFOSR were used to subsidize graduate student and postdoctoral conference fees, as well as help defray travel costs for the invited speakers and session chairs.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of future target areas in the field. The time for formal presentations was limited in the interest of group discussions, which followed each of the talks. Poster sessions were held on each of the conference nights (Monday-Thursday) in order that more opportunities for communication of recent research results could be provided. Attached is a list of the formal speaker program and poster sessions. In addition to these formal interactions, free time was scheduled to promote more informal scientific discussions, which are of course very important in fostering new collaborations and joint efforts in the field.

As you know, in the interest of promoting the presentation of the very latest and ground-breaking results (which are therefore typically unpublished), Gordon Research Conference does not permit publication of any proceedings or abstracts associated with the meeting. If you wish for any further details, please feel free to contact me. Once again, I would like to thank the AFOSR for their support of the Atomic and Molecular Interactions Gordon Conference.

Sincerely,

David Neshitt

1996 Chair, Atomic and Molecular Interactions Gordon Conference



1996 Gordon Research Conference Atomic and Molecular Interactions

David Nesbitt (chair, JILA/University of Colorado) Robert Wyatt (vice-chair, University of Texas)

- A. Sunday PM: State-to-State Dynamics (session chair, John Zhang, New York University)
 - 1. Henning Meyer, University of Bern/University of Georgia, "Counterpropagating pulsed molecular beam scattering"
 - 2. Joel Bowman, Emory University, "Quantum and classical photodissociation calculations of ICN and Ar-H2O respectively"
 - 3. Fleming Crim, University of Wisconsin, "State-to-state dynamics and controlled bond cleavage"
- B. Monday AM: Highly Quantum Systems (session chair, Roger Miller, University of North Carolina)
 - 1. Takeshi Oka, University of Chicago, "Spectroscopy and dynamics of the highly quantum system;
 Parahydrogen crystal"
 - 2. Birgitta Whaley, University of California, Berkeley, "Doped quantum clusters superfluids and superclusters"
 - 3. Peter Toennies, Max Planck Institute, Goettingen, "High resolution molecular spectroscopy in liquid helium droplets"
- C. Monday PM: New Physics with Laser Cooled Atoms (session chair, John Weiner, University of Maryland)
 - 4. Carl Wieman, JILA/University of Colorado, "Bose-Einstein condensation in ultracold gas"
 - 5. David Pritchard, MIT, "Atom interferometers and their scientific applications"
- D. Tuesday AM: Reactions in Clusters (session chair, David Clary, Cambridge University)
 - 1. Marsha Lester, University of Pennsylvania, "Spectroscopy and reaction dynamics of OH-H2/D2 entrance channel complexes"
 - 2. Zlatko Bacic, New York University, "Quantum dynamics of small hydrogen-bonded clusters"
 - 3. Jean Paul Visticot, Orsay, "Cluster isolated chemical reaction"
- E. Tuesday PM: Molecular Ion Clusters (session chair, Tim Zwier, Purdue University)
 - 4. Evan Bieske, University of Melbourne, "Infrared studies of proton-bound complexes: He, Ne and Ar atoms attached to HN2+ and HCO+"
 - 5. Dan Neumark, Berkeley, "Time-resolved studies of photodissociation in negative ions"
- F. Wednesday AM: Atomic and Molecular Scale Imaging (session chair, Paul Weiss, Pennsylvania State University)
 - 1. Charles Lieber, Harvard University, "Chemical force microscopy: probing and imaging intermolecular interactions in solution"
 - 2. Jay Trautman, Bell Labs
 - 3. W.E. Moerner, IBM/University of California, San Diego, "Optical spectroscopy of individual molecules in solids"
- G. Wednesday PM: Molecule-Surface Interactions (session chair, Bruce Kay, Pacific Northwest Lab)
 - 4. Ron Naaman, Weizmann Institute, Rehovot, Israel, "Electron transfer through organized organic films-monitored by scattering and other methods".
 - 5. Andy Kummel, University of San Diego, "Chemisorption dynamics of interhalogen molecules"
- H. Thursday AM: Photomolecular Interactions (session chair, Laurie Butler, University of Chicago)
 - Alec Wotdke, University of California, Santa Barbara, "Collisional energy transfer in highly vibrationally excited O2"
 - 2. Pat Vacarro, Yale University, "Sub-doppler nonlinear spectroscopy as a probe of photodissociation dynamics"
 - 3. David Chandler, Sandia National Laboratories, Livermore, "Multiphoton photofragment imaging: The non resonant photodissociation of H2, D2 and H"
- I. Thursday PM: Interatomic Forces in Ions (session chair, Jeremy Hutson, University of Durham)
 - 4. Alan Carrington, University of Southampton, "Ion beam microwave spectroscopy: Studies of long-range atom/atomic ion interactions"

GORDON RESEARCH CONFERENCES CHAIRMAN'S CONFERENCE APPLICANT REPORT As Of 21-JUN-96

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REC'D: LIST #:__ ENT'D:

CONFERENCE #: 96-S-CS2-4
CONFERENCE TOPIC: ATOMIC & MOLECULAR INTERACTIONS

CONFERENCE LOCATION: COLBY-SAWYER (2) CONFERENCE DATE: JUN-30-96

APPLICANT NAME ORGANIZATION	APPLIC #	DATE SENT TO CHRMN		PARTIC	STATUS	SPEC FUND
FRANCOIS G AMAR UNIVERSITY OF MAINE	1001256	MAY-20-96	RGSTD	POSTR		
DAVID T ANDERSON UNIVERSITY OF COLORADO	1001456	MAY-15-96	RGSTD	POSTR		
FRANCISCO J AOIZ UNIVERSIDAD COMPLUTENSE	1001871	MAR-15-96	ACCPT	POSTR		
ZLATKO BACIC NEW YORK UNIVERSITY	1002860	APR-05-96	RGSTD	SPKR		465.00
DELROY BAUGH UCLA	1004180	MAY-23-96	ACCPT	POSTR		
DEIRDRE A BELLE-OUDRY CORNELL UNIVERSITY	1004772	MAY-13-96	RGSTD	POSTR		
CHRISTOPHER J BENDER ALBERT EINSTEIN COLLEGE OF		MAR-15-96	RGSTD	POSTR		
EVAN BIESKE THE UNIVERSITY OF MELBOURN	1005860	APR-05-96	RGSTD	SPKR		465.00
DAVID A BLANK UNIVERSITY OF CALIFORNIA	1006313	MAY-15-96	RGSTD	POSTR		•
JOEL BOWMAN EMORY UNIVERSITY	1097884	APR-05-96	RGSTD	SPKR		465.00
PHILIP R BROOKS RICE UNIVERSITY	1008385	MAR-29-96	RGSTD	POSTR		
RICE UNIVERSITY ROBERT BUKOWSKI UNIVERSITY OF WARSAW	1099105	APR-19-96	RGSTD	POSTR		
PHIL BUNKER NRC OTTAWA CANADA	1096436	MAR-15-96	RGSTD	POSTR		
LAURIE J BUTLER UNIVERSITY OF CHICAGO	1009561	APR-05-96	RGSTD	DISCL		465.00
ALAN CARRINGTON UNIVERSITY OF SOUTHAMPTON	1097882	APR-05-96	RGSTD	SPKR		465.00
GREGORZ CHALASINSKI UNIVERSITY OF WARSAW	2095568	MAR-15-96	RGSTD	POSTR		
DAVID CHANDLER SANDIA NATIONAL LABORATORII	1011240	APR-05-96	RGSTD	SPKR		465.00
YONGQIN CHEN	1011907	MAY-31-96	ACCPT	POSTR		
UNIV. OF CALIFORNIA, BERKE CHENG-CHI CHUANG HARVARD UNIVERSITY	LEY 1100757	MAY-17-96	ACCPT	POSTR		•

GORDON RESEARCH CONFERENCES CHAIRMAN'S CONFERENCE APPLICANT REPORT

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CONFERENCE CHAIR: DAVID NESBI						, ,,
APPLICANT NAME ORGANIZATION	APPLIC #	DATE SENT TO CHRMN	STATUS	PARTIC	NEW STATUS	SPEC FUND
DAVID C CLARY UNIVERSITY COLLEGE LONDON	2012983	MAR-15-96	RGSTD	DISCL		465.00
ROBERT E CONTINETTI UNIVERSITY OF CALIFORNIA,	2013810 SAN	APR-23-96	RGSTD	ATTND		
F. FLEMING CRIM	1014642		RGSTD	SPKR		465.00
CAROLINE E DESSENT YALE UNIVERSITY LAURA DODECK CORNELL UNIVERSITY RAINER A DRESSLER	1086000	MAR-15-96	RGSTD	POSTR		
LAURA DODECK CORNELL UNIVERSITY	1100870	MAY-20-96	RGSTD	POSTR		
RAINER A DRESSLER PHILLIPS LABORATORY, USAF	1018212	MAY-13-96	RGSTD	POSTR	7	
RONALD J DUCHOVIC INDIANA UNIVERSITY, PURDUE	1018402	MAR-15-96	RGSTD	POSTR		
PATRICK DUPRE GRENOBLE HIGH MAGNETIC LABO	1099469	APR-25-96	RGSTD	POSTR		
.ΤΕΛΝΈΨΨΕ ΕΤΟΟ		MAY-15-96	RGSTD	POSTR		
UNIVERSITY OF ILLINOIS PATRICK E FLEMING TULANE UNIVERSITY IGOR K GALETICH	1097773	APR-01-96	RGSTD	POSTR		
INST FOR LOW TEMP PHYS, UK	1096120 RAIN	MAR-15-96	RGSTD	POSTR		
MARK C GARNER UNIVERSITY OF CALIFORNIA A	1099135	APR-22-96	RGSTD	POSTR		
GREGORY I GELLENE TEXAS TECH UNIVERSITY	1024410	MAR-15-96	RGSTD	POSTR		
EDWARD F GREENE BROWN UNIVERSITY	1026758	MAR-29-96		POSTR		
STEVEN J GULDING UNIVERSITY OF CALIFORNIA	1100754	MAY-17-96	RGSTD	POSTR		
BROOKHAVEN NATIONAL LABORA	1028197 FORY	MAY-02-96	RGSTD	POSTR		
HENDRIK HAMANN UNIVERSITY OF COLORADO	1100693	MAY-15-96	RGSTD	POSTR		
JEANNE M HOSSENLOPP MARQUETTE UNIVERSITY	1032135	APR-02-96	RGSTD	POSTR		
PAUL L HOUSTON CORNELL UNIVERSITY	1032216	MAR-15-96	CANCL	ATTND		

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GORDON RESEARCH CONFERENCES CHAIRMAN'S CONFERENCE APPLICANT REPORT As Of 21-JUN-96

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APPLICANT NAME ORGANIZATION		TO CHRMN		PARTIC	STATUS	SPEC FUND
JEREMY M HUTSON	2033114	MAR-15-96	RGSTD	DISCL		465.00
UNIVERSITY OF DURHAM						
BOGUMIL JEZIORSKI	1099104	APR-19-96	RGSTD	POSTR		
THE UNIVERSITY OF WARSAW						
BRUCE D KAY	3036780	MAR-29-96	RGSTD	SPKR		465.00
PACIFIC NORTHWEST NATIONAL						
JAMES S KELLER	2037020	MAY-16-96	RGSTD	POSTR		
UNIVERSITY OF NOTRE DAME						
PAUL KLEIBER	1038288	MAR-22-96	RGSTD	POSTR		
UNIVERSITY OF IOWA	100000					
ALAN E.W. KNIGHT GRIFFITH UNIVERSITY	1038620	MAY-17-96	ACCPT	ATTND		
WEI KONG	1020101	W337 00 06	2002			
OREGON STATE UNIVERSITY	1039101	MAY-08-96	RGSTD	POSTR		
BRENT D KOPLITZ	1020102	MAD 15 06	DOCUMD	A COCOLATIO		
TULANE UNIVERSITY	1039193	MAR-15-96	RGSTD	ATTND		
JOHN R KRENOS	1039766	APR-02-96	RGSTD	7 mmxtr		
RUTGERS, THE STATE UNIVERS		APK-02-96	RGSID	ATTND		
M. KRISHNAMURTHY	1100273	MAY-09-96	RGSTD	POSTR		
JILA	1100275	MAI - 09 - 90	RGSID	POSIK		
ANDY KUMMELL	1097881	APR-05-96	RGSTD	SPKR		465.00
UNIVERSITY OF SAN DIEGO	203,001		KGD1D	DEICIC		465.00
ROBERT J LE ROY	1084386	APR-01-96	RGSTD	ATTND		
UNIVERSITY OF WATERLOO			110012	111 1110		
SUNGYUL LEE	1042267	MAR-15-96	RGSTD	POSTR		
KYUNGHEE UNIVERSITY, KOREA						
MARSHA I LESTER	2042817	MAR-22-96	RGSTD	SPKR		465.00
UNIVERSITY OF PENNSYLVANIA						100.00
KEN G LIBBRECHT	1097538	MAR-29-96	CANCL	ATTND		
CALTECH						
CHARLES M LIEBER	2043423	APR-05-96	RGSTD	SPKR		465.00
HARVARD UNIVERSITY						
LI LIU	1101764	JUN-14-96	ACCPT	ATTND		
BROOKHAVEN NATIONAL LABORA						
K. THOMAS LORENZ	1096804	MAR-15-96	RGSTD	POSTR		
TULANE UNIVERSITY						
VICTOR F LOTRICH	1099741	APR-30-96	RGSTD	POSTR		
UNIVERSITY OF DELAWARE						

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As Of 21-JUN-96

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CONFERENCE #:

96-S-CS2-4

CONFERENCE TOPIC: ATOMIC & MOLECULAR INTERACTIONS

CONFERENCE LOCATION: COLBY-SAWYER (2) CONFERENCE DATE: JUN-30-96

APPLICANT NAME ORGANIZATION		TO CHRMN		PARTIC	STATUS	SPEC FUND
H. PETER LU PACIFIC NORTHWESTERN NATIO	1096505	MAR-15-96	RGSTD	POSTR		
STUART MACKENZIE	1100692	MAY-15-96	CANCL	ATTND	<i>*</i>	
JORG MAIN UNIVERSITY OF SOUTHERN CAL	1100493 IFOR	MAY-13-96	RGSTD	POSTR		
ERIC MAS UNIVERSITY OF DELAWARE	1099740	APR-30-96	RGSTD	POSTR		
HOWARD MAYNE UNIVERSITY OF NEW HAMPSHIR	1047672 E	MAR-15-96	RGSTD	POSTR		
RUTH MC DIARMID NATIONAL INSTITUTES OF HEA	1047795 LTH	JUN-07-96	RGSTD	ATTND		
ANNE B MCCOY THE OHIO STATE UNIVERSITY	1100533	MAY-14-96	RGSTD	POSTR		
J. DOUGLAS MCDONALD UNIVESITY OF ILLINOIS	1048194	APR-01-96	RGSTD	POSTR		
	1048466	MAY-13-96	RGSTD	ATTND		
MIKHAIL M MESTECHKIN INSTITUTE OF PHYS-ORGANIC	2090133	MAR-15-96	CANCL	POSTR		
HENNING MEYER UNIVERSITY OF GEORGIA	1097883	APR-05-96	RGSTD	SPKR	4	465.00
CHRIS A MICHAELS COLUMBIA UNIVERSITY CHEMIS	1049563 TRY	APR-15-96	RGSTD	POSTR		
ROGER E MILLER UNIVERSITY OF NORTH CAROLI	1049968	APR-05-96	RGSTD	DISCL	4	465.00
W E MOERNER UCSD	1050502	APR-05-96	RGSTD	SPKR	4	465.00
JAMES T MUCKERMAN BROOKHAVEN NATIONAL LABORA	1051600	APR-30-96	RGSTD	POSTR		
RON NAAMAN WEITZMANN INSTITUTE	1052244	MAY-15-96	RGSTD	SPKR	4	465.00
DAVID NESBITT UNIVERSITY OF COLORADO	1053041	MAR-29-96	RGSTD	CHAIR	. 4	465.00
DAN NEUMARK U.C. BERKELEY	1053124	MAR-15-96	RGSTD	SPKR	4	465.00
JAY A NIESSE UNIV OF NEW HAMPSHIRE	1053494	MAR-15-96	RGSTD	POSTR		

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CONFERENCE CHAIR: DAVID NESBITT						
APPLICANT NAME ORGANIZATION		DATE SENT TO CHRMN			פדזידמיים	SPEC FUND
SIMON NORTH BROOKHAVEN NATIONAL LAB	1100740			ATTND		
TAKESHI OKA UNIVERSITY OF CHICAGO	2095316	APR-23-96	RGSTD	SPKR		465.00
LEONARD PIPES UCLA	1100918	MAY-23-96	ACCPT	ATTND		
DAVID E PRITCHARD MIT	2059139	APR-05-96	RGSTD	SPKR		465.00
CHARLES X. W QIAN UNIVERSITY OF VICTORIA	1099260	APR-23-96	RGSTD	ATTND		
YANHUI QIU NEW YORK UNIVERSITY	1099106	APR-19-96	RGSTD	ATTND		
RICHARD L REDINGTON TEXAS TECH UNIVERSITY	1089018	APR-29-96	RGSTD	POSTR		
JAMES H REHO PRINCETON UNIVERSITY	1099596	APR-29-96	RGSTD	POSTR		
STEPHEN B ROSS CALTECH	1097539	MAR-29-96	CANCL	ATTND		
ALEXANDER RUDAVETS MPHTI	2099606	MAY-08-96	ACCPT	POSTR		
DUBRAVKO SABO NEW YORK UNIVERSITY	1099108	APR-19-96	RGSTD	POSTR		
JOANNA SADLEJ UNIVERSITY OF WARSAW	1100133	MAY-07-96	RGSTD	POSTR		
CHARLES SCHMUTTENMAER YALE UNIVESITY	2065480	APR-29-96	RGSTD	POSTR		
REBECCA SCHWARTZ UNIVERSITY OF PENNSYLVANIA		MAR-15-96	RGSTD	POSTR		
AMIT SINHA UNIVERSITY OF CALIFORNIA PETER E SISKA	1068636	MAY-20-96	RGSTD	POSTR		
UNIVERSITY OF PITTSBURGH JAMES J SLOAN	1068723	APR-30-96	RGSTD	POSTR		
UNIVERSITY OF WATERLOO JOHN E SMEDLEY	1086234	MAR-15-96	CANCL	ATTND		
BATES COLLEGE MARK SMITH	1069047	APR-23-96	RGSTD	POSTR		
UNIVERSITY OF ARIZONA	1084759	APR-29-96	RGSTD	POSTR		

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GORDON RESEARCH CONFERENCES CHAIRMAN'S CONFERENCE APPLICANT REPORT

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ONFERENCE TOPIC: ATOMIC & MOLECULAR INTERACTIONS

ONFERENCE LOCATION: COLBY-SAWYER (2) CONFERENCE DATE: JUN-30-96

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EIL SNIDER NORTHWESTERN UNIVERSITY	1069463	MAR-29-96	RGSTD	ATTND		
IMOTHY P SOFTLEY OXFORD UNIVERSITY	1069607	APR-30-96	RGSTD	POSTR		
ARIANNE SOWA RESAT UC SAN DIEGO	1099136	APR-22-96	RGSTD	POSTR		
RZYSZTOF SZALEWICZ HARVARD UNIVERSITY	1085141	APR-15-96	RGSTD	ATTND		
USIE TAYLOR SOUTHAMPTON UNIVERSITY	1099468	APR-25-96	RGSTD	ATTND		
. PETER TOENNIES MAX-PLANCK-INST FUR STROMU	2074485	APR-05-96	RGSTD	SPKR		465.00
ICHAEL R TOPP	1074709	MAR-15-96	ACCPT	POSTR		
UNIVERSITY OF PENNSYLVANIA AY K TRAUTMAN	2074939	APR-05-96	RGSTD	SPKR		465.00
SBQ LTD. SUSY N TSANG	1100756	MAY-17-96	RGSTD	POSTR		
HARVARD UNIVERSITY ULIA UPPENBRINK	1095712	MAR-15-96	RGSTD	ATTND		
SCIENCE ATRICK H VACCARO	1076007	APR-05-96	RGSTD	SPKR		465.00
ATRICK H VACCARO YALE UNIVERSITY (ICHAEL VAKSMAN	1095534	MAR-15-96	RGSTD	POSTR		
UNIVERSITY OF DETROIT MERC NTONIO J. C VARANDAS		JUN-07-96	RGSTD	ATTND		
UNIVERSIDADE DE COIMBRA		00N-07-96		ATTND		
EAN-PAUL VISTICOT COMMISIARIAT A WENERGIE AT	1077378 OMIO	APR-05-96	RGSTD	SPKR		465.00
NDREJ VOTAVA JILA	1101410	JUN-07-96	RGSTD	ATTND		
TEPHEN P WALCH NASA AMES RESEARCH CENTER	1077963	MAY-16-96	RGSTD	POSTR		
IARK C WALL BOSTON UNIVERSITY	1100635	MAY-15-96	ACCPT	POSTR		
NDY WALTON	1097422	MAR-29-96	RGSTD	POSTR		
UNIVERSITY OF MARYLAND OHN WEINER UNIVERSITY OF MARYLAND	2095790	APR-05-96	RGSTD	DISCL		465.00
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GORDON RESEARCH CONFERENCES CHAIRMAN'S CONFERENCE APPLICANT REPORT As Of 21-JUN-96

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CONFERENCE DATE: JUN-30-96

APPLICANT NAME ORGANIZATION	APPLIC #	DATE SENT TO CHRMN	STATUS	PARTIC	NEW STATUS	SPEC FUND
PAUL S WEISS THE PENNSYLVANIA STATE UNI	1079390	APR-05-96				
	1079814	APR-08-96	RGSTD	SPKR		465.00
CARL E WIEMAN	1080194	APR-05-96	RGSTD	SPKR		465.00
UNIVERSITY OF COLORADO CARL J WILLIAMS JFI/NIST SKIP WILLIAMS GPID	1100494	MAY-13-96	RGSTD	POSTR		
SKIP WILLIAMS GPID	1100535	MAY-14-96	RGSTD	POSTR		
FRANK J WODARCZYK NATIONAL SCIENCE FOUNDATIO	1081155		RGSTD	ATTND		
ALEC M WODTKE	1081158	APR-05-96	RGSTD	SPKR		465.00
UNIV OF CALIFORNIA, SANTA SCOTT A WRIGHT JOHNS HOPKINS UNIVERSITY		APR-25-96	RGSTD	POSTR		
ROBERT E WYATT UNIVERSITY OF TEXAS	1081953	MAR-15-96	RGSTD	VCHR		465.00
HAO XU STANFORD UNIVERSITY	1099034	APR-18-96	RGSTD	POSTR		
MARK A YOUNG UNIVERSITY OF IOWA	1085300	APR-02-96	RGSTD	POSTR		
VEYSEL ZENGIN UNIVERSITY OF CALIFORNIA A		APR-22-96	RGSTD	POSTR		
JOHN ZHANG	1097886	APR-05-96	RGSTD	DISCL		465.00
NEW YORK UNIVERSITY LANGCHI ZHU UNIVERSITY OF ILLINOIS	1083803	MAY-15-96	RGSTD	ATTND		
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1996 GORDON CONFERENCE ATOMIC AND MOLECULAR INTERACTIONS

MONDAY POSTERS

(please take these posters down by 12 noon on Tuesday)

1. Anderson, David Davis, S. Nesbitt, D.

Slit Jet Discharges: A Novel, Intense Source of Supersonically Cooled Radicals and Molecular Ions

2. Belle-Oudry, Deirdre McKay, R. Westley, M. Houston, P.

Studies of the Reaction of OH Radicals with Organophosphates

3. Bender, Christopher

Pulsed Electron Magnetic Resonance as a Probe of Weak Interactions in Supramolecular Assemblies

4. Blank, David North, Simon Stranges, D. Suits, A Lee, Y. T.

The Photodissociation of DMSO-h6 and DMSO-d6 at 193nm Studied by Photofragment Translational Spectroscopy

5. Bukowski, Robert Jeziorski, B Szalewicz, K

Basic Set Superposition Problem in Interaction Energy Calculations... Saturated second- and third-oder Energies for He2

6. Bunker, P. R.

The Proton Rearrangement Dynamics and Spectrum of CH5+

7. Chalasinski, Grzegorz

Ab Initio Studies of Open-Shell Interactions

8. Chen, Y.

Femtosecond time-resolved photoelectron spectroscopy

9. Clary, D. C. Gregory, J. K.

Quantum Simulation of Water Clusters

10. Continetti, R. Hanold, K. Garner, M.

Photoelectron/photofragment angular correlations and energy partitioning in the dissociative photodetachment of O₄⁻ Dessent, Caroline Serxner, D Johnson, M. A. Bailey, G. Kim, J.

11. Observation of the Precursor to Charge-Transfer-to-Solvent Bands of Solvated Iodine in Small Gas Phase Clusters.

12. Infrared Spectroscopy of Negative Ion Clusters: Hydrated Electrons and Hydrated Iodode I⁻(H₂O)

13. Dodeck, L. Kong, W. Hepburn, J. Houston, P.

Photodissociation Dynamics of Glyoxal

14. Dressler, Rainer Bastian, M Levandier, D Murad, E

Collision-Induced Dissociation and Photodissociation Studies of the (N2O.H2O)+ Cluster Ion

15. Duchovic, R. J. Pettigrew, J. D. Welling, B. Shipchandler, T.

A Fundamental Combustion Process: H(D)+O2

16. Dupre, Patrick Muller, T Zhang, Q Vaccaro, P. H.

Spectroscopy of the S2O Ground Electronic State: Comparison between DLIF and SEP-DFWM Techniques

17. Fiss, Jeanette Zhu, Langchi Wada, R Gordon, R

Control the Product Distribution in the Photo-Excitation of DI with Coherent Laser Fields

18. Fleming, Patrick Cowen, K Lorenz, K Herman, M Koplitz, B

Nuclear Hyperfine Populations in the Ground State of Atomic Hydrogen Using Velocity-Aligned Doppler Spectroscopy

19. Galetich, Igor

Experimental Study of Protein-Nucleic Acid Base Interactions Involving Amide Group

20. Garner, Mark Hanold, K. Resat, M. Continetti, R.

Dissociation Dynamics of the Low-Lying Excited States of O₃

TUESDAY POSTERS

(please take these posters down by 12 noon on Wednesday)

1. Greene, E. F. Meli, C. A. Yang, H.

Similarities in the Reconstruction of Ge(111) and Si(111) Surfaces at High Temperatures and a Model for Them

2. Gulding, S. Hou, H. Wodtke, A. Auerbach, D. Rettner, C.

State-Specific Alignment of Hydrogen Desorbed from Cu(111)

Hall, Gregory North, S. Sears, T.

- 3. Transient FM Spectroscopy: Applications in Chemical Dynamic, Spectroscopy and Kinetics
- 4. Unimolecular Dissociation of NCCN
- 5. Hossenlopp, Jeanne Zhang, Y Christophy, E Myli, K

Investigation of Photodissociation Processes in Complex Molecules

6. Hurwitz, Y. Stern, P. Naaman, R.

Reactivity Induced by Complex Formation: The Reaction of O(³P) with HCl Dimers

7. Jeziorski, Bogumil Korona, T Moszynski, R

Convergence Properties of Perturbation Theory for Interaction of He and H2 with He

8. Keller, James Dowd, T Miller, L Schehr, C Burca, G

Two-Color, Laser-Induced Grating Spectroscopy: a Multidimensional Probe of Excited State Dynamics Kleiber, Bruce Wong, T. Cheng, Y. Chen, J. Freel, C. Ding, L.

9. Chemical Dynamics of Mg*/Mg+*—CH4 Reactions

10. Photodissociation Spectroscopy of Mg2+--CO2/H2O/CH4 Ion-Molecule Complexes

11. Knight, Alan Bradley, A Butz, K

Internal Rotor-Overall Rotation Interactions in Substituted Toluenes: Comparison of Theory and Experiment

12. Kong, Wei Lai, S. Y. Broughton, S.

Photochemistry of diazines in the ultraviolet

13. Krenos, John Rickey, D

Molecular Beam Study of the Collisions of State-Monitored, Metastable Noble Gas Atoms with O2(X3Eg-)

14. Krishnamurthy, M. Gouw, J Bierbaum, V Leone, S

Cluster Ion Mobilities: Ionic Structures and Interaction Potentials

15. Lee, Sungyul

Selective Production of Photofragments along Asymmetric Resonances in OH Photodissociation

16. Libbrecht, Ken Boyd, R Bliss, J

Progress Toward Achieving Bose-Einstein Condensation in Gaseous Cesium

17. Lotrich, Victor Szalewicz, K

Symmetry-Adapted Perturbation Theory of Three-Body Nonadditivity of Ar

Gellene, Gregory Yoo, R. Sharpe, S.

- 18. Symmetry Induced Kinetic Isotope Effects in the Formation of Ar-CO2+
- 19. Ab Initio Investigations of Polyiodide Anions

WEDNESDAY POSTERS

(please take these posters down by 12 noon on Thursday)

1. Lu, Peter Xie, X. S.

Room Temperature Studies of Single Molecule Spectroscopy and Chemical Dynamics

2. Main, Jorg Taylor, H.

Physical Interpretation of Dynamical Processes in Small Molecules Exhibiting Chaos

3. Mas, Eric Szalewicz, K.

Effects of Monomer Geometry on Depth of Water Dimer Potential and Evaluation of Potential Energy Surface

4. Mayne, Howard Niesse, J. A.

Global Minimization of Small Clusters Using the Space- Fixed Modified Genetic Algorithm Approach

5. McCoy, Ann

Theoretical Studies of Chemical Reactions in Clusters: Transition State Dynamics of Arn (ClHC1)

6. Mestechkin, Mikhail

Hartree-Fock Instability Threshold, Molecular Size, and Molecular-ion Transition

7. Michaels, Chris Mullin, A. S. Flynn, G. W.

Collisional Quenching of Highly Vibrationally Excited Pyrazine by CO₂: Excitation of the (10^o0)...Bath Vibrational Modes

8. Oian, Charles Loock, H. Cao, J.

The Nonadiabiatic Photodissociation of BrNO at 355nm

9. Pipes, L. C. Baugh, D.

Complete Chemical Reactions: The Photofragmentation of Polarized Molecules

10. Qiu, Yanhui Bacic, Z.

Full-Dimensional Bound State Calculations for HC1 Dimer

11. Redington, Richard

The Cyclobutadiene CB.AR, CB.CO, and CB.CO₂ Complexes; the Ar/CB Matrix System

12. Reho, J. Higgins, J Stienkemeier F Ernst, W Lehmann, K Gutowski, M Scoles, G Spectroscopy and Photoinduced Chemical Dynamics of High Spin Alkali Trimers

13. Resat, S. Zengin, V. Hanold, K. Continetti, R. E.

Dissociative Photodetachment and Photodissociation of N₃O₂-

14. Ross, Stephen Lang, S Lucke, S Kanorsky, S Weis, A Hansch, T Atomic Spectroscopy of Cesium Trapped in Solid Helium

 Rudavets, Alexandr Akulin, V. M. Dykhne, A. M. Dubovitskii, V. A. Photon Echo of Photodissociation by Properly Tailored Laser Pulses

16. Sabo, D. Bacic, Z.

Three-Dimensional Model Calculations of Torsional Levels of (H2O)3,...

17. Sadlej, J. Williams, H. Szalewicz, K.

Symmetry-Adapted Perturbation Theory for the Interaction of Two CO2 Molecules

18. Schuttenmaer, Charles

Femtosecond THz Pulse Spectroscopy: A Unique Tool

 Schwartz, Rebecca Giancarlo, L. Bonn, R. Loomis, R. Lester, M. Intermolecular Vibrations and Relaxation Dynamics of OH-N2 Complexes

20. Sinha, A Barnes, R. Gross, A.

Photodissociation Dynamics of Vibrationally Excited Molecules: HN3 and H2O

THURSDAY POSTERS

(please take these posters down by Friday morning at 9AM)

1. Siska, Rebecca Longley, E. J.

Penning Ionization Dynamics: Coupling between Recoil Angle and Recoil Energy

2. Smedley, J. E. Coulter, S. K. Zomlefer, K.

Energy Transfer in Ba(5d7p) ³D₁ Rare Gas Collisions

3. Smith, Mark

Ion-Molecule and Radical Molecule Reaction Rates in Supersonic Flows

4. Softley, T. P. Mackenzie, S. R. Rolland, D. Dickinson, H.

Production and Reaction of Rotationally State-Selected Ions Using Pulsed-Field Techniques

5. Szalewicz, Krzysztof

Symmetry-Adapted Perturbation Theory of Intermolecular Interactions

6. Tsang, Susy Chuang, C-C Klemperer, W.

Overtone Spectroscopy and Intermolecular Vibrational State Dependence of the Predissociation Rate of N2HF

7. Vaksman, Michael Podgorski, I.

Surface Light-Induced Flux Magnitude at Different Radiation Intensities

8. Varandras, A. J. C. Wang, W.

On the O₂ (v') +O₂ (v") Atmospheric Reaction: a Quasiclassical Trajectory Study

9. Wall, Mark Wilson, E. L. Kennedy, M. Mullin, A. S.

Energy Dependent Single Collision Energy Transfer: Probing of the Bath Gas to Understand Collisional Quenching

10. Walch, S. P.

Theoretical Studies of the HO/HO₂ Catalytic Cycle for Ozone Destruction

11. Walton, Andy

Genetic Algorithm for Determination of Global Minima of Atomic Clusters

12. Williams, Carl

Obtaining Precise Information from Photoassociation Spectroscopy

13. Williams, Skip Rahn, L. Zare, R. N.

Effects of Different Population, Orientation, and Alignment Relaxation Rates in Resonant Four-Wave Mixing

14. Wright, S. Dagdigan, P. J.

Excited State Dynamics of the NCO Free Radical

15. Xu, Hao Low, R. J. Shafer-Ray, N. Zare, R. N.

Measurement of the State Resolved Differential Cross Section for the Reaction H + D2 at 2.2 eV

16. Young, Mark

Photofragment Kinetic Energy Release in Hydrogen-Bonded and Charge Transfer Complexes

17. Zengin, V. Strong, K. M. Hanold, K. A. Continetti, R. E.

Study of the Low-lying Electronic States of CCO by Photoelectron Spectroscopy of CCO-

18. Zwier, T. Pribble, R. N. Gruenloh, C.

Resonant Ion-Dip Infrared Spectroscopy of Hydrogen Bonded Clusters

19. Hamann, H. F. Kokubo, T. Gallagher, A. Nesbit, D.

Near-Field Interactions of Molecules with Surfaces and Microstructures as probed by Fluorescence Properties Muckerman, J. Kaluza, M.

20. Bright-State Expansion and Optimal Control of Bond Selective IR Multiphoton Dissociation of linear HCCD

21. Bond Selective IR Multiphoton Excitation and Dissociation of linear HCCD